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| Form PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. VT-1869 | SERIAL NO. 09/484,799 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT Barker et al. | |
| Sheet Page 1 of 1 | | FILING DATE 1/18/00 | GROUP 1745 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIALS | REF. NO. | DOCUMENT NUMBER | PUBLICATION DATE | NAME OF PATENTEE OR APPLICANT | LOCATION WHERE RELEVANT PASSAGES OR FIGURES APPEAR | RELEVANT FIGURES |
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| CL | | US 5721070 B1 | 2/24/1998 | Shackle | | |
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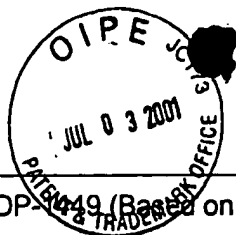
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| EXAMINER <i>Carl Cheney</i> | DATE CONSIDERED <i>3-22-05</i> |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; conformance and not considered. Include copy of this form with next communication to applicant. | |



FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE
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Sheet 1 of 2

ATTORNEY DOCKET No.

4858-000123

SERIAL No.

09/484,799

APPLICANT

Jeremy Barker

FILING DATE

January 18, 2000

GROUP

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| Ref. Desig. | Examiner's Initials | Document Number | Date | Name | Class/ Subclass | (If appropriate) Filing Date |
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| 1. | CL | 5,871,866 | 2/16/99 | Barker et al. | — | — |
| 2. | CL | 5,567,548 | 10/22/96 | Walk et al. | — | — |
| 3. | CL | 5,496,663 | 3/5/96 | Walk et al. | — | — |
| 4. | CL | 5,219,677 | 6/15/93 | Labat et al. | — | — |

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| 1. | CL | PCT/US00/35302 | 5/29/01 | Search Report - PCT | — | | |
| 2. | CL | EP 1 049 182 A2 | 11/2/00 | Europe | — | | X |
| 3. | CL | JP11025983 ✓ | 1999-01/1999 | Japan | — | X | |
| 4. | CL | DE 40 24 409 A1 ✓ | 8/1/90 | Germany | — | | X |
| 5. | CL | JP5299101 | 1994/11/1993 | Japan | — | X | |
| 6. | CL | JP11111295 ✓ | 1/1999 | Japan | — | X | |

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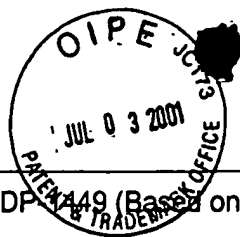
| Ref. Desig. | Examiner's Initials | |
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| 1. | CL | Boutinaud et al., "The Solid Solution BaLi _{1-x} Cu _x PO ₄ ($x \leq 0.5$): An Example of Cu ⁺ Single-Ion Luminescence in Oxide Insulators"; J. Mater. Chem 1996, 6(3), pp 381-384. |
| 2. | CL | Patent Abstracts of Japan, 11025983, 1/29/99, Japan Storage Battery Col., Ltd. |
| 3. | CL | Patent Abstracts of Japan, 05299101, 11/12/93, Sanyo Electric Co., Ltd. |

Examiner:

CL/Chen

Date Considered: 11-19-01

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| 1. | | | | | | | |

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| 2. | <i>a</i> | Goni et al., "7Li and 31P Nuclear Magnetic Resonance Studies of Li1-3xMgFexPO4"; Journal of Applied Physics, Volume 84, Number 1, July 1, 1998, pp 416-421. |
| 3. | <i>a</i> | Nanjundaswamy et al., "Synthesis, Redox Potential Evaluation and Electrochemical Characteristics of NASICON-Related-3D Framework Compounds"; Solid State Ionics 92 (1996) pp 1-10. |
| 4. | <i>a</i> | Gopalakrishnan et al., "V2(PO4)3: A Novel NASICON-Type Vanadium Phosphate Synthesized by Oxidative Deintercalation of Sodium from Na3V2(PO4)3"; Chemistry of Materials, Volume 4, Number 4, July/August 1992. |
| 5. | <i>ci</i> | Martinez-Juarez et al., "Relationship Between Activation Energy and Bottleneck Size for Li+ Ion Conduction in NASICON Materials of Composition LiMM'(PO4)3; M, M' = Ge, Ti, Sn, Hf"; J. Phys. Chem, 1998, pp 372-375. |
| 6. | <i>a</i> | Cocciantelli et al., "On the $\delta \rightarrow \gamma$ Irreversible Transformation in Li/V2O5 Secondary Batteries," Solid State Ionics 78 (1995) pp 143-150. |
| 7. | <i>a</i> | Delmas et al., "The Li/V2O5 System: An Overview of the Structure Modifications Induced by the Lithium Intercalation"; Solid State Ionics, 69 (1994) pp 257-264. |

Examiner: *Chen*

Date Considered: 11-19-01

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| | APPLICANT | |
| | Barker, J. | |
| | FILING DATE | GROUP |
| | 1/18/00 | 1745 |

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| 2. | CC | 5,871,866 | 2/16/99 | Barker, et al. | 429/231.1 | |
| 3. | CC | 5,496,663 | 03/05/96 | Walk, et al. | 429/218 | |
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| 1. | CC | JP 2001110414 | 4-20-2001 | JAPAN, ENGLISH ABSTRACT PROVIDED | | abstract | X |
| 2. | CC | JP 2001110455 | 4-20-2001 | JAPAN, ENGLISH ABSTRACT PROVIDED | | | X |
| 3. | | JP 5325961 | 12-10-1993 | JAPAN, ENGLISH ABSTRACT PROVIDED | | | |
| 4. | CC | JP 9134724 | 05-20-1997 | JAPAN | | X | |
| 5. | CC | JP 2004052733 | 02-23-2004 | JAPAN, ENGLISH ABSTRACT PROVIDED | | | X |
| 6. | CC | JP11025983 | 01-29-1999 | JAPAN, ENGLISH ABSTRACT PROVIDED | | | X |
| 7. | CC | JP2001085010 | 03-30-2001 | JAPAN | | X | |
| 8. | CC | CA 2096386 | 11-19-1993 | CANADA | | | |
| 9. | CC | EP 571858 B1 | 12-01-93 | European Patent Office | H01M-4/58 | | |
| 10. | CC | WO 200060680 | 10-12-00 | Japan- English Abstract on Document | H01M-4/58 | | |
| 11. | CC | WO 97/40541 | 10-30-97 | WIPO | H01M-4-58 | X | |

Examiner: *Carol Cherny*Date Considered: *updated 3-21-05 CC*

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Sheet 2 of 4

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| 12. | CC | JP 09134725 | 05-20-97 | Japan | H01M-4-58 | X | |
| 13. | CC | JP 09171827 | 06-30-97 | Japan | H01M-4/02 | X | |
| 14. | CC | JP 2000294238 | 10-20-00 | Japan | H01M-4/02 | X | |
| 15. | CC | JP 08171938 | 07-02-96 | Japan | H01M-10/40 | X | |
| 16. | CC | WO 9512900 | 05-11-95 | WIPO English Abstract on Document | H01M-4-02 | X | |
| 17. | CC | DE 40 244 09 A1 | 02-06-92 | Germany/English Abstract Provided | C01G-51/00 | | X |
| 18. | CC | CA 2,200,998 | 09-25-98 | Canada | H01M-4/24 | X | |
| 19. | CC | EP 1 049 182 A2 | 11-2-00 | European Patent Office English Abstract | H01M-4/58 | abstract | X |
| 20. | CC | JP 52999101 | 11-12-93 | Japan/English Abstract Provided | H01M-6/18 | | X |
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| 2. | CC | Butt, G., et al., Lithium metal phosphate cathodes for Li Secondary batteries, (1998), J. Australas. Ceram. Soc., 34(1), pp. 60-65, ABSTRACT PROVIDED. |

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Date Considered:

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| | APPLICANT | |
| | Barker, J. | |
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| Ref. Desig. | Examiner's Initials | |
| 3. | <i>cc</i> | Andersson, A., et al., Thermal stability of LiFePO ₄ – based cathodes, (2000), Electrochem. Solid-State Lett., 3(2), pp. 66-68, ABSTRACT PROVIDED. |
| 4. | <i>cc</i> | Garcia-Alvarado, F., et al., Structural and electrochemical characterization of electrode materials for lithium rechargeable batteries, (2000) Bol. Soc. Esp. Ceram. Vidrio, 39(3), pp. 239-243, ABSTRACT PROVIDED. |
| 5. | <i>cc</i> | Amine, K., et al., Olivine LiCoPO ₄ as 4.8 V electrode material for lithium batteries, (2000); Electrochem. Solid-State Lett. 3(4), pp. 178-179, ABSTRACT PROVIDED. |
| 6. | <i>cc</i> | Best, A., et al., The effect of additives on ceramic materials for lithium solid electrolytes (1998), J. Australas. Ceram. Soc., 34(1), pp. 236-241. |
| 7. | <i>cc</i> | Okada, S., et al., Cathodes properties of phospho-olivines for lithium secondary batteries, (2000), 14(2), pp. 133-137, ABSTRACT PROVIDED. |
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| 9. | <i>cc</i> | Padhi, A.K., et al., Phospho-Olivines as positive-electrode materials for rechargeable lithium batteries, (1997) J. Electrochem. Soc., 144(4), 1188-1194. |
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| 11. | <i>✓cc</i> | Andersson, et al., Lithium extraction/insertion in LiFePO ₄ : an x-ray diffraction and Mossbauer spectroscopy study, (2000), Solid State Ionics, 130 (1,2), 41-52 |
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| 14. | <i>cc</i> | Goni, et al., ⁷ Li and ³¹ P nuclear magnetic resonance studies of Li _{1-3x} MgFe _x PO ₄ , (1998), Journal of Applied Physics, Vol. 84 No. 1 |
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| Examiner: <i>Chris Ch...</i> | Date Considered: |
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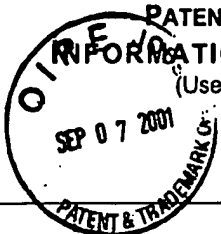
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| 16. | <i>u</i> | C. Delmas, et al., The $\text{Li}_x\text{V}_2\text{O}_5$ system: An overview of the structure modifications induced by the lithium intercalation, (1994) Solid State Ionics 69, 257-264 |
| 17. | <i>u</i> | Martinez-Juarez, et al., Relationship between Activation Energy and Bottleneck Size for Li ⁺ Ion Conduction in NASICON Materials of Composition $\text{LiMM}'(\text{PO}_4)_3$; M, M' = Ge, Ti, Sn, Hf, J. Phys. Chem, B 1998, 102, 372-375 |
| 18. | <i>u</i> | J. Gopalakrishnan, et al., $\text{V}_2(\text{PO}_4)_3$: A Novel NASICON Type Vanadium Phosphate Synthesized by Oxidative Deintercalation of Sodium from $\text{Na}_3\text{V}_2(\text{PO}_4)_3$, (1992) Chemistry of Materials, Volume 4, Number 4 |
| 19. | <i>u</i> | K.S. Nanjundaswamy, Synthesis, redox potential evaluation and electrochemical characteristics of NASICON – related-3D framework compounds, Solid State Ionics 92 (1996) 1-10 |
| 20. | <i>u</i> | International Search Report PCT/US 00/35302; PCT Search Authority |

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| Examiner: <i>[Signature]</i> | Date Considered: <i>update 3-21-05 u</i> |
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| 1. | CL | 6,153,333 <i>new</i> | 11/28/00 | Barker | 428/218.1 | |
| 2. | CL | 5,871,866 | 2/16/99 | Barker, et al. | 429/231.1 | |
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| 1. | CL | JP 2001110414 | 4-20-2001 | JAPAN, ENGLISH ABSTRACT PROVIDED | | | X |
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| 9. | CL | EP 571858 B1 | 12-01-93 | European Patent Office | H01M-4/58 | | |
| 10. | CL | WO 200060680 | 10-12-00 | Japan- English Abstract on Document | H01M-4/58 | | |
| 11. | CL | WO 97/40541 | 10-30-97 | WIPO | H01M-4-58 | X | |

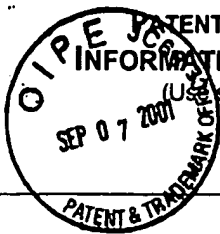
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| Examiner: <i>Carol Chaney</i> | Date Considered: <i>8/16/04</i> |
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| 14. | cc | ✓ JP 2000294238 | 10-20-00 | Japan | H01M-4/02 | X | |
| 15. | cc | ✓ JP 08171938 | 07-02-96 | Japan | H01M-10/40 | X | |
| 16. | cc | ✓ WO 9512900 | 05-11-95 | WIPO English Abstract on Document | H01M-4-02 | X | |
| 17. | considered in previous sheet | ✓ DE 40 244 09 A1 | 02-06-92 | Germany/English Abstract Provided | C01G-51/00 | | X |
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| 19. | cc | ✓ EP 1 049 182 A2 | 11-2-00 | European Patent Office English Abstract | H01M-4/58 | | X |
| 20. | cc | ✓ JP 52999101 | 11-12-93 | Japan/English Abstract Provided | H01M-6/18 | | X |
| 21. | cc | ✓ JP 11111295 | 04-23-99 | European Patent Office English Abstract Provided | H01M-4/58 | | X |

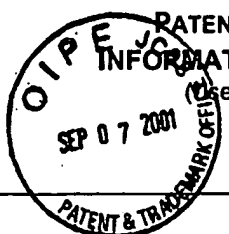
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| 1. | cc | ✓ Lutsko, V., Ion exchange and sorption processes as methods of synthesis of double phosphates and intercalated compounds, (1990), Phosphorus, Sulfur Silicon Relat. Elem., 51-52 (1-4), pp. 97-100, ABSTRACT PROVIDED. |
| 2. | cc | ✓ Butt, G., et al., Lithium metal phosphate cathodes for Li Secondary batteries, (1998), J. Australas. Ceram. Soc., 34(1), pp. 60-65, ABSTRACT PROVIDED. |

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| Examiner: <i>Carol Chavez</i> | Date Considered: <i>8-16-04</i> |
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| 3. | <i>ce</i> | Andersson, A., et al., Thermal stability of LiFePO ₄ – based cathodes, (2000), Electrochem. Solid-State Lett., 3(2), pp. 66-68, ABSTRACT PROVIDED. |
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| 12. | <i>ce</i> | Boutinaud, P., et al., The solid solution BaLi _{1-x} Cu _x PO ₄ (x<0.5): an example of Cu+single-ion luminescence in oxide insulators, (1996) J. Mater. Chem., 1996 6(3), 381-384 |
| 13. | <i>ce</i> | Vaknin, et al., Weakly (x=0) and randomly (x=0.033) coupled using antiferromagnetic planes in (Li _{1-3x} Fex) NiPO ₄ compounds, (1999) Phys. Rev. B: Condens. Matter. Mater. Phys. 60(2), 1100-1110 |
| 14. | <i>ce</i> | Goni, et al., ⁷ Li and ³¹ P nuclear magnetic resonance studies of Li _{1-3x} MgFexPO ₄ , (1998), Journal of Applied Physics, Vol. 84 No. 1 |
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| 17. | a | Martinez-Juarez, et al., Relationship between Activation Energy and Bottleneck Size for Li^+ -Ion Conduction in NASICON Materials of Composition $\text{LiMM}'(\text{PO}_4)_3$; $\text{M}, \text{M}' = \text{Ge}, \text{Ti}, \text{Sn}, \text{Hf}$, J. Phys. Chem, B 1998, 102, 372-375 |
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| 20. | a | International Search Report PCT/US 00/35302; PCT Search Authority |

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3-21-05

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| Examiner: <i>Carol Channing</i> | Date Considered: <i>8-16-04</i> |
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| Ref. Desig. | Examiner's Initials | Document Number | Date | Country | Class/ Subclass | Translation Yes No |
| 1. | OK | DE 40 244 09 A1 | 02-06-92 | Germany | C01G-51/00 | YES |

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| 6. | OK | Lutsko, V., Ion exchange and sorption processes as methods of synthesis of double phosphates and intercalated compounds, (1990), Phosphorus, Sulfur Silicon Relat. Elem., 51-52 (1-4), pp. 97-100 |
| 7. | OK | Okada, S., et al., Cathodes Properties of Phospho-olivine for Lithium Secondary Batteries, The Reports of Institute of Advanced Material Study, Kyushu University, Vol. 14, No.2 (2000) |

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Jeremy Barker and M. Yazid SaidiFILING DATE
January 18, 2000GROUP
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U. S. PATENT DOCUMENT

| EXAMINER INITIALS | | PATENT NO. | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE |
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| | AC | 5,514,490 | 5-7-96 | Chen et al. | 1 | 1 | |
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| ca | AL | EP O 680 106 A1 | 11-2-95 | EPO | | | Yes |
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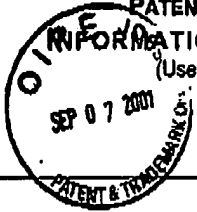
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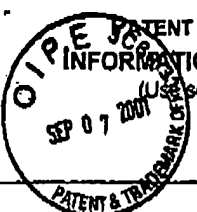
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